

QY 361 EDDDKLEQIRKDYTSGLTSGAMLTGELKKALIEVLQPLIAHQARRKEVTDEIVKEFTMPRKLS 420
DB 408 EDDDKLEQIRKDYTSGLTSGAMLTGELKKALIEVLQPLIAHQARRKEVTDEIVKEFTMPRKLS 467
QY 421 FDFQ 424
DB 468 FDFQ 471

RESULT 7
AAB58220
ID AAB58220 standard; Protein; 475 AA.
XX
AC AAB58220;
DT 14-MAR-2001 (first entry)
XX
DE Lung cancer associated polypeptide sequence SEQ ID 558.
XX
KW Human; lung cancer associated protein; neuroprotective; cytosolic;
KW cardioactive; immunomodulatory; muscular active; vulnerary;
KW gastrointestinal; nephrotropic; antiinfective; gynecological;
KW antibacterial; diagnosis; neural disorder; immune disorder; reproductive;
KW proliferative disorder; wound healing; infectious disease.
XX
OS Homo sapiens.
XX
XX WO200055180-A2.
XX
XX 21-SEP-2000.
XX
XX 08-MAR-2000; 2000WO-US05918.
XX
XX 12-MAR-1999; 99US-0124270.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX (ROSE/) ROSEN C A.
XX
XX Ruben SM;
XX
XX WPI; 2000-587514/55.
XX
XX N-PSDB; AAF18096.

PT Lung cancer associated gene sequences, referred to as lung cancer
PT antigens, useful for treatment, prevention, and diagnosis of disorders
PT such as lung cancer -
XX
XX Claim 11; Page 1052-1053; 1425pp; English.
XX
XX Polynucleotide sequences AAF17982 - AAF18424 encode human lung cancer
XX associated proteins represented in AAB58106 - AAB58548. Lung cancer
XX associated proteins and polynucleotide sequences, their agonists, and
XX antagonists may have neuroprotective; cytosolic; cardioactive;
XX immunomodulatory; muscular active general; vulnerary; gastrointestinal
XX general; nephrotropic; antiinfective; gynecological; or antibacterial
XX activity. The invention also includes antibodies specific for the
XX protein or polynucleotide sequences. The lung cancer associated
XX polynucleotide sequences may be used for detection of lung cancer,
XX chromosome identification, as chromosome markers, and for numerous other
XX diagnostic or research purposes. The proteins may be used to treat
XX disorders such as neural, immune, muscular, reproductive,
XX gastrointestinal, pulmonary, cardiovascular, renal, and proliferative
XX disorders. The proteins may also be used in the treatment of wounds and
XX infectious diseases. Polynucleotide sequences AAF18425 - AAF18433 and
XX peptide AAB58549 are used in the course of the invention for the
XX identification and characterisation of the polynucleotide and protein
XX sequences.
XX
XX Sequence 475 AA;

Query Match 99.3%; Score 2231; DB 21; Length 475;
Best Local Similarity 99.5%; Pred. No. 2.7e-220;
The

Matches 422; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 MSYKAAAGEDYKADCPGCPNAPTSNHGPDATAEAEEDFVDPMTVQTSSAKGIDYDKLIVRF 60
DB 52 MSYKAAAGEDYKADCPGCPNAPTSNHGPDATAEAEEDFVDPMTVQTSSAKGIDYDKLIVRF 111
QY 61 GSSKIDKELINRIERATQORPHHFLRRCGIFESHDMNQVLDAYENKKPFYLYTGRGPSSE 120
DB 112 GSSKIDKELINRIERATQORPHHFLRRCGIFESHDMNQVLDAYENKKPFYLYTGRGPSSE 171
QY 121 AMHVGHLLIPFIETKWLQDVFNVLVIQMTDDEKYLWKDLTLDQAYGDVAENAKDIIACGF 180
DB 172 AMHVGHLLIPFIETKWLQDVFNVLVIQMTDDEKYLWKDLTLDQAYSYAVENAKDIIACGF 231
QY 181 DINKTFIFESDLDYMGSSGFYKVVVKIQKHVTFNQVKGIFGFTSDDCIGKISFPAIAQAP 240
DB 232 DINKTFIFESDLDYMGSSGFYKVVVKIQKHVTFNQVKGIFGFTSDDCIGKISFPAIAQAP 291
QY 241 SFSNSFPOIFRDRDTIOCLIPCAIDODPYFRMTDVPAPRIGYVKKPALLHSTFFPALQGAQ 300
DB 292 SFSNSFPOIFRDRDTIOCLIPCAIDODPYFRMTDVPAPRIGYVKKPALLHSTFFPALQGAQ 351
QY 301 TMSASDPNSSIFLTDITAKQIKTKVNHAFSGGRDTIEHRQFGNGCDVDVSFMYLTFFL 360
DB 352 TMSASDPNSSIFLTDITAKQIKTKVNHAFSGGRDTIEHRQFGNGCDVDVSFMYLTFFL 411
QY 361 EDDDKLEQIRKDYTSGLTSGAMLTGELKKALIEVLQPLIAHQARRKEVTDEIVKEFTMPRKLS 420
DB 412 EDDDKLEQIRKDYTSGLTSGAMLTGELKKALIEVLQPLIAHQARRKEVTDEIVKEFTMPRKLS 471
QY 421 FDFQ 424
DB 472 FDFQ 475

RESULT 8
AAY05372
ID AAY05372 standard; Protein; 471 AA.
XX
AC AAY05372;
XX
XX 30-JUN-1999 (first entry)
XX
XX Human HCMV inducible gene protein, SEQ ID NO 12.
XX
XX HCMV inducible gene; cig; human; human cytomegalovirus; interferon;
XX anti-viral therapy; anti-HCMV therapy; detection; diagnosis;
XX drug screening.
XX
XX Homo sapiens.
XX
XX WO9913075-A2.
XX
XX 18-MAR-1999.
XX
XX 08-SEP-1998; 98WO-US18638.
XX
XX 22-SEP-1997; 97US-0059725.
XX 08-SEP-1997; 97US-0058180.
XX (UYPR-) UNIV PRINCETON.
XX
XX Cong J, Schenk T, Zhu H;
XX WPI; 1999-243729/20.
XX DR N-PSDB; AAX33942.
XX
XX New isolated human genes
XX
XX Claim 3; Page 112-114; 184pp; English.
XX
XX This sequence is encoded by a human gene of the invention, and is induced
XX to express by both HCMV and interferon (IFN), designated HCMV-inducible

CC genes (cig or cigs). The invention also relates to genes that are
 CC repressed in the presence of HCMV infection, designated HCMV-repressible
 CC genes (cig or cigs). The products can be used to obtain agents which can
 CC be used for anti-viral therapy, particularly anti-HCMV therapy. They can
 CC also be used for the development of drugs that would allow for higher
 CC dosage IFN treatments without the concomitant toxicity normally
 CC associated with administering high levels of IFN. The products can also
 CC be used for detection, diagnosis and drug screening.

XX Sequence 471 AA;
 Query Match 99.1%; Score 2226; DB 20; Length 471;
 Best Local Similarity 99.3%; Pred. No. 8.8e-220;
 Matches 421; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 MSYKAAAGEDYKADCPGCPNAPTNSHGPDATEAEEDFVDPMTVOTSSAKGIDYDKLIVRF 60
 DB 48 MSYKAAAGEDYKADCPGCPNAPTNSHGPDATEAEEDFVDPMTVOTSSAKGIDYDKLIVRF 107
 QY 61 GSSKIDKELINRIERATQORPHFLRRGIFFSHRDMNQVLDAYENKPPFYLYTGRGPSSE 120
 DB 108 GSSKIDKELINRIERATQORPHFLRRGIFFSHRDMNQVLDAYENKPPFYLYTGRGPSSE 167
 QY 121 AMHVGHLPFTFKWLQDVFNVLVIQMTDDEKYLWKDLTLDQAYGDAVENAKDIIACGF 180
 DB 168 AMHVGHLPFTFKWLQDVFNVLVIQMTDDEKYLWKDLTLDQAYGDAVENAKDIIACGF 227
 QY 181 DINTKTFISDLUDYMGSSGFKYKVVKIQKHVTFNOVKIGFOTSDCIGKISFPAIOAAP 240
 DB 228 DINTKTFISDLUDYMGSSGFKYKVVKIQKHVTFNOVKIGFOTSDCIGKISFPAIOAAP 287
 QY 241 SFSNSFPQIFDRDITDIOCLIPCAIDQDPYFMTDRDVAIPRIGYKPKALLHSTFPPALOGAQ 300
 DB 288 SFSNSFPQIFDRDITDIOCLIPCAIDQDPYFMTDRDVAIPRIGYKPKALLHSTFPPALOGAQ 347
 QY 301 TKMSASDPNSSIFLTDIAKQIKTKVKNHAFSGGRDTIEHRQFGNCNDVVSFMYLTFEL 360
 DB 348 TKMSASDPNSSIFLTDIAKQIKTKVKNHAFSGGRDTIEHRQFGNCNDVVSFMYLTFEL 407
 QY 361 EDDKLEQIRKDYTSGLMTGELKALIEVLQPLIAHQARRKEVTDEIVKEFMTPRKLS 420
 DB 408 EDDKLEQIRKDYTSGLMTGELKALIEVLQPLIAHQARRKEVTDEIVKEFMTPRKLS 467
 QY 421 FDFQ 424
 DB 468 FDFQ 471

RESULT 9
 AAG79549 standard; Protein; 401 AA.

XX AAG79549;
 AC AAG79549;
 DT 10-DEC-2002 (first entry)
 XX TrpRS T1 polypeptide.

XX T2; tryptophanyl-tRNA synthase; TrpRS; ocular neovascularisation;
 KW neovascular eye disease; age-related macular degeneration;
 KW ocular complication; diabetes; rubecotic glaucoma; retinopathy;
 KW prematurity; keratitis; ischaemic retinopathy; sickle cell;
 KW pathological myopic; ocular histoplasmosis; pterygia; TI;
 KW punitate innerchorioidopathy; retinal degeneration; growth factor;
 KW vascularisation; vascular endothelial cell function; angiogenesis.

OS Homo sapiens.

XX WO200267970-A1.
 XX 06-SEP-2002.
 XX 22-FEB-2002; 2002WO-US05185.

XX 23-FEB-2001; 2001US-270951P.
 PR (SCRI) SCRIPPS RES INST.
 PA Schimmel P, Wakasugi K, Friedlander M;
 PI WPI; 2002-698635/75.
 XX New polypeptides derived from human tryptophanyl-tRNA synthase, useful
 PT for inhibiting ocular neovascularization in a patient, or for treating
 PT neovascular eye diseases, e.g. rubecotic glaucoma, retinopathy,
 PT keratitis, or pterygia -
 XX Example 1; Page 78-79; 83pp; English.
 PS This sequence represents a novel cleavage product, T1, of
 CC recombinant human tryptophanyl-tRNA synthase (TrpRS). A related
 CC cleavage product, T2, is water soluble and comprises residues 94-471
 CC of full length TrpRS. The water-soluble T2 polypeptide is useful for
 CC inhibiting ocular neovascularisation in a patient. The T2 polypeptide
 CC is useful for treating neovascular eye diseases, e.g. age-related macular
 CC degeneration, ocular complications of diabetes, rubecotic glaucoma,
 CC retinopathy, pterygia, keratitis, ischaemic retinopathy (e.g.
 CC sickle cell), pathological myopic, ocular histoplasmosis, pterygia, or
 CC punitate innerchorioidopathy. This polypeptide is particularly useful
 CC for treating retinal degeneration to prevent the damaging effects of
 CC trophic and growth factors, and for promoting vascularisation to retard
 CC retinal degeneration by enhancing blood flow to cells. These are also
 CC useful for regulating vascular endothelial cell function, and in
 CC particular, for inhibiting angiogenesis.
 XX Sequence 401 AA;
 SQ Query Match 94.2%; Score 2116; DB 23; Length 401;
 Best Local Similarity 100.0%; Pred. No. 1.4e-208;
 Matches 401; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 24 SNHGPDATBAEDFVDPMTVOTSSAKGIDYDKLIVRGSSKIDKELINRIERATGQRP 83
 DB 1 SNHGPDATBAEDFVDPMTVOTSSAKGIDYDKLIVRGSSKIDKELINRIERATGQRP 60
 QY 84 FLRRGIFFSHRDMNQVLDAYENKPPFYLYTGRGPSSEAMHVGHLPFTFKWLQDVFNVP 143
 DB 61 FLRRGIFFSHRDMNQVLDAYENKPPFYLYTGRGPSSEAMHVGHLPFTFKWLQDVFNVP 120
 QY 144 LVIQMTDDEKYLWKDLTLDQAYGDAVENAKDIIACGFIDINKTFIFSDLDYMGSSGFKYK 203
 DB 121 LVIQMTDDEKYLWKDLTLDQAYGDAVENAKDIIACGFIDINKTFIFSDLDYMGSSGFKYK 180
 QY 204 VVKIQKHVTFNOVKIGFOTSDCIGKISFPAIOAPSFNSFPQIFDRDITDIOCLIPCA 263
 DB 181 VVKIQKHVTFNOVKIGFOTSDCIGKISFPAIOAPSFNSFPQIFDRDITDIOCLIPCA 240
 QY 264 IDQDPYFMTDRDVAIPRIGYKPKALLHSTFPPALOGAOTKMSASDPNSSIFLTDIAKQIKT 323
 DB 241 IDQDPYFMTDRDVAIPRIGYKPKALLHSTFPPALOGAOTKMSASDPNSSIFLTDIAKQIKT 300
 QY 324 KVNKHAFFSGGRDTIEHRQFGNCNDVVSFMYLTFELDDDKLEQIRKDYTSGLMTGEL 383
 DB 301 KVNKHAFFSGGRDTIEHRQFGNCNDVVSFMYLTFELDDDKLEQIRKDYTSGLMTGEL 360
 QY 384 KALIEVLQPLIAHQARRKEVTDEIVKEFMTPRKLSFDFQ 424
 DB 361 KALIEVLQPLIAHQARRKEVTDEIVKEFMTPRKLSFDFQ 401

RESULT 10
 AAB47617
 ID AAB47617 standard; Protein; 415 AA.
 XX AAB47617;
 AC AAB47617;
 XX